

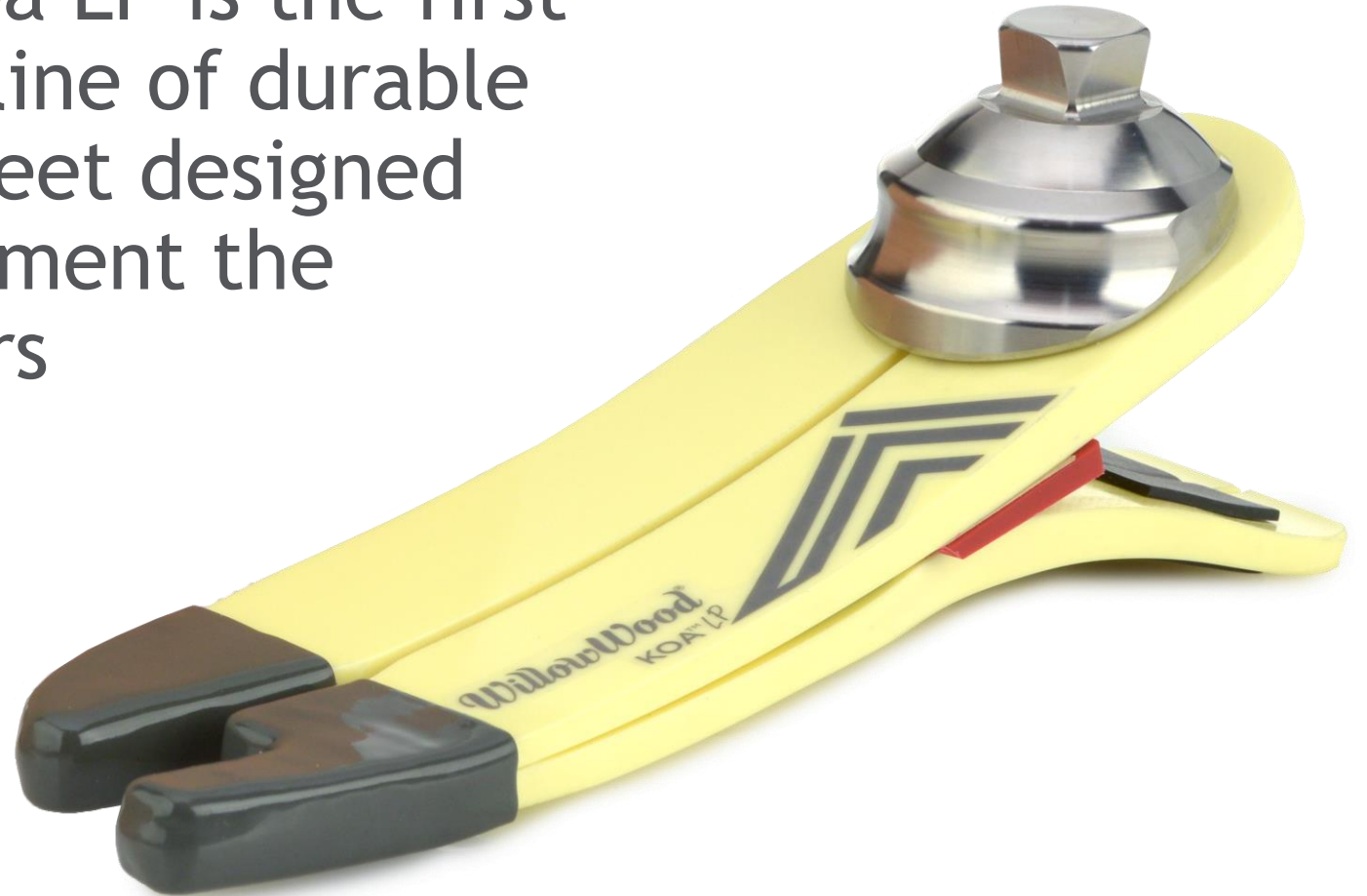
KOA

WillowWood[®]



Introduction

- For practitioners searching for an alternative to the status quo, the Koa LP is the first in WillowWood's new line of durable fiberglass prosthetic feet designed specifically to complement the comfort of Alpha Liners



Product Highlights

- Ultra-low profile paired with a functional sandal toe
- Split keel for added stability
- Waterproof
- Titanium pyramid attachment



Product Highlights

- Glass composite = energy return + ground compliance
- Ideal for...
 - moderately to highly active individuals
 - need durability and dynamic response



Koa LP Foot

- Smooth roll-over and high energy return
- Split keel provides reliable stability over various terrain
- The functional sandal toe gives:
 - footwear versatility
 - lifelike appearance



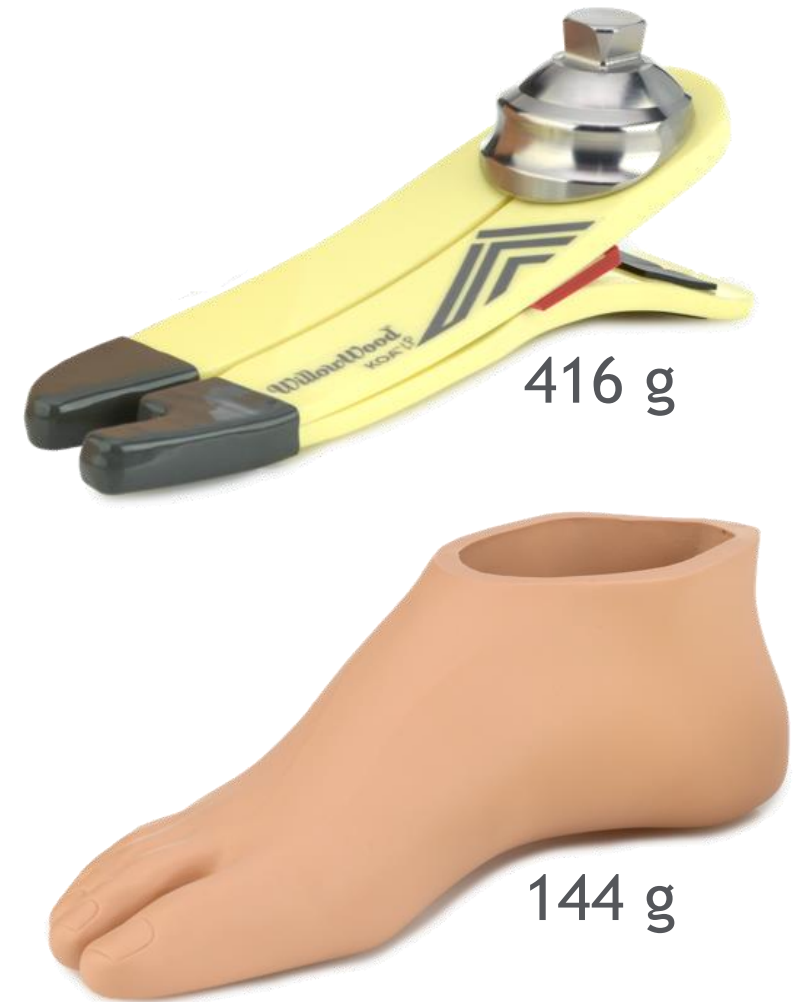
Specifications

Heel Height	10 mm (3/8")
Build Height	67 mm (2.6")
Sizes*	23 cm through 28 cm
Patient Weight Limit	365 lbs (166 kg)
Heel Stiffness	Adjustable with provided heel wedges
Toe Stiffness	2 through 9**
Weight (size 26, category 5)	560 g
Colors***	Buff, Medium Brown, Tan

*All sizes have a sandal toe

**Sizes 23 and 24 are available in categories 2,3, and 4 only

***while named the same, different than existing WW colors



What's in the box?



Note: Soft heel stiffness = no heel wedge

Toe Stiffness

User Weight	Impact Levels		
	Low	Medium	High
99-115 lbs (45-52 kg)	2	2	2
116-130 lbs (53-58 kg)	2	2	3
131-150 lbs (59-68 kg)	2	3	4
151-170 lbs (69-77 kg)	3	4	5
171-194 lbs (78-88 kg)	4	5	6
195-221 lbs (89-100 kg)	5	6	7
222-256 lbs (101-116 kg)	6	7	8
257-287 lbs (117-130 kg)	7	8	9
228-324 lbs (131-147 kg)	8	9	—
325-365 lbs (148-165 kg)	9	—	—

Impact Level Examples

LOW

Walking on uneven surfaces

- Shopping
- Yard work
- Community ambulation

MEDIUM

Light sports

- Golf
- Bowling
- Trail walking
- Walking for exercise

HIGH

Higher impact activities

- Running
- Basketball
- Treadmill

(Amputee leaves ground and lands on prosthetic foot)

Pricing/ Warranty

- Trial period
 - 60 days from date of patient fitting
- Warranty
 - Foot module: 36 months
 - Foot shell: 6 months

Segmentation and Targeting

- Fiberglass Fitters
- Carbon Fiber Loyalists
- Hydraulic Ankle Alternative Seekers



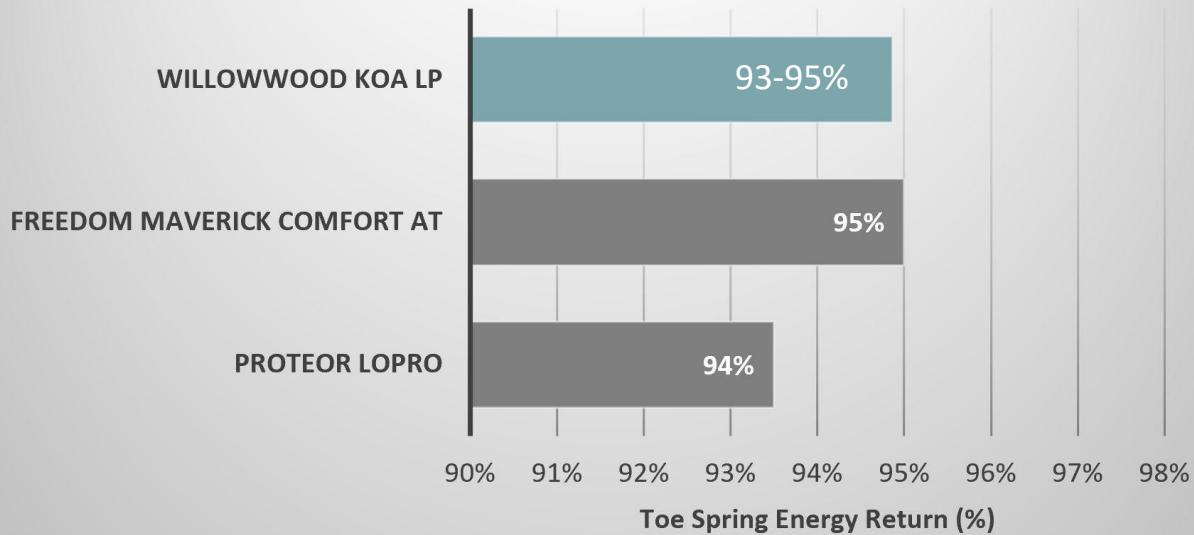
Positioning: Fiberglass Fitters

- ..vs. Freedom
 - Low, Similar
- ...vs Rush
 - Lifelike, Split

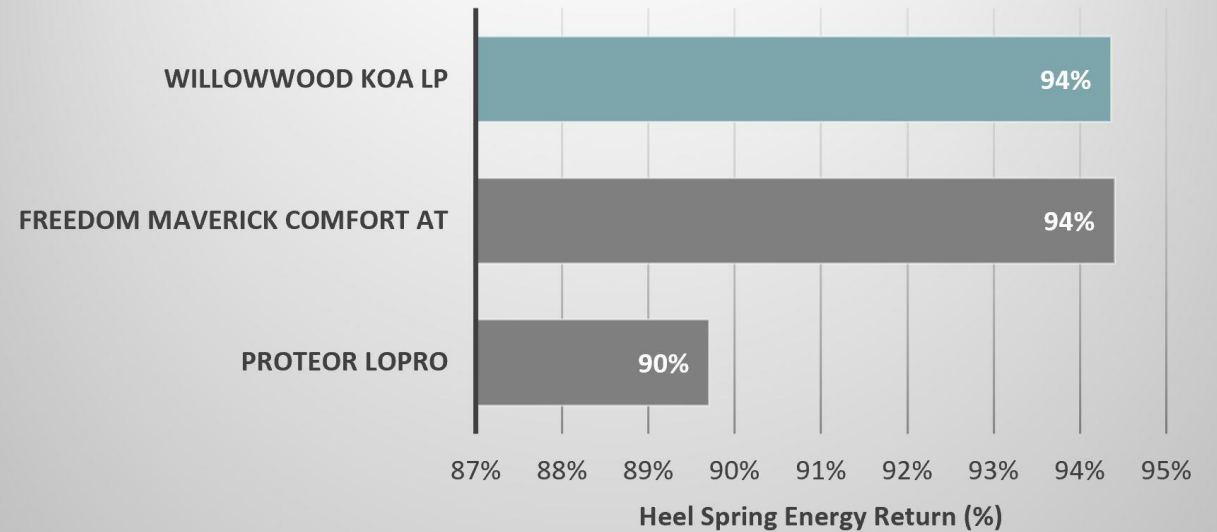


Positioning: Fiberglass Fitters

**Fiberglass
Toe Spring Energy Return**



**Fiberglass
Heel Spring Energy Return**



Positioning: Fiberglass Fitters

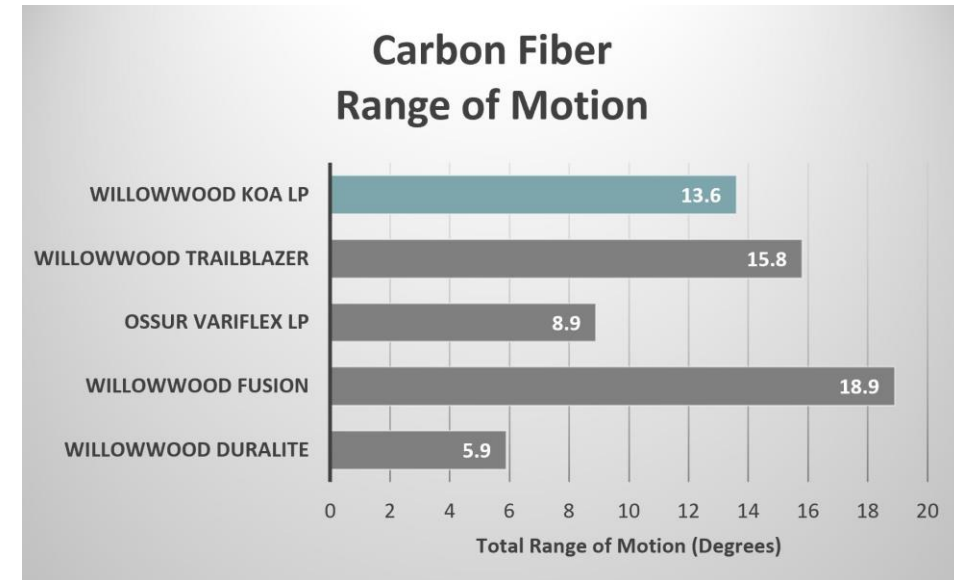
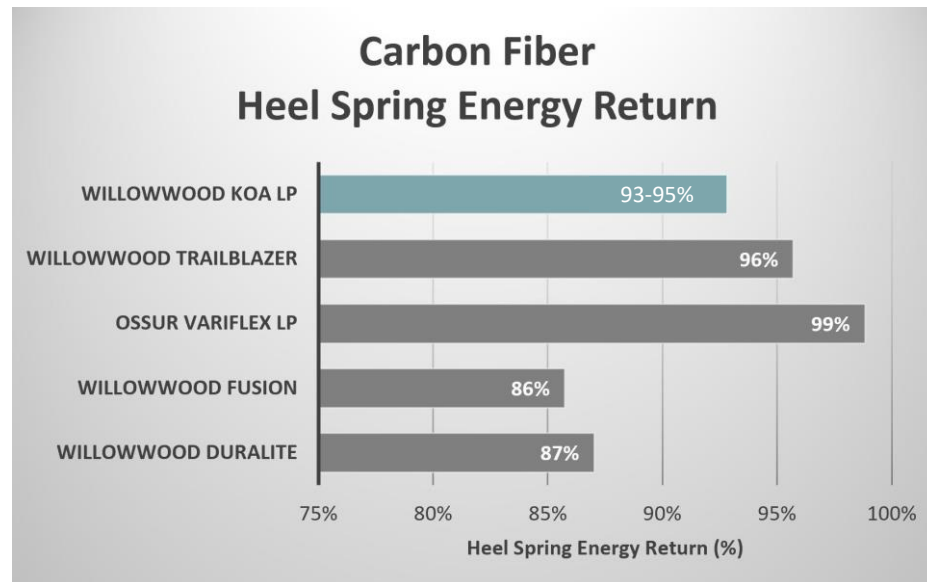
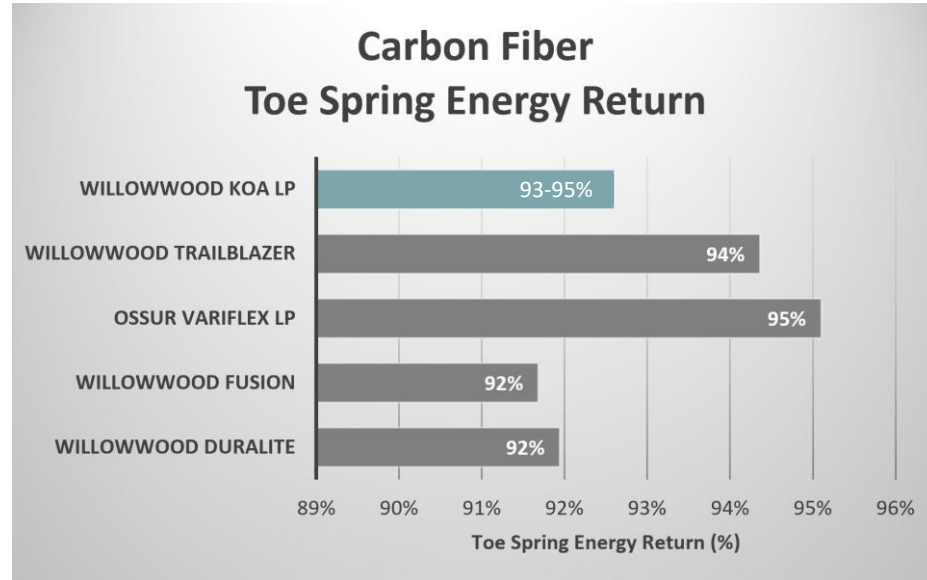
- Summary:
 - Equivalent or better energy return performance in a lifelike and low profile package

Positioning: Carbon Fiber Loyalists

- ...vs Carbon Fiber Feet (Variflex LP, Triton, etc)
 - Durable, Compliant



Positioning: Carbon Fiber Loyalists



Positioning: Carbon Fiber Loyalists

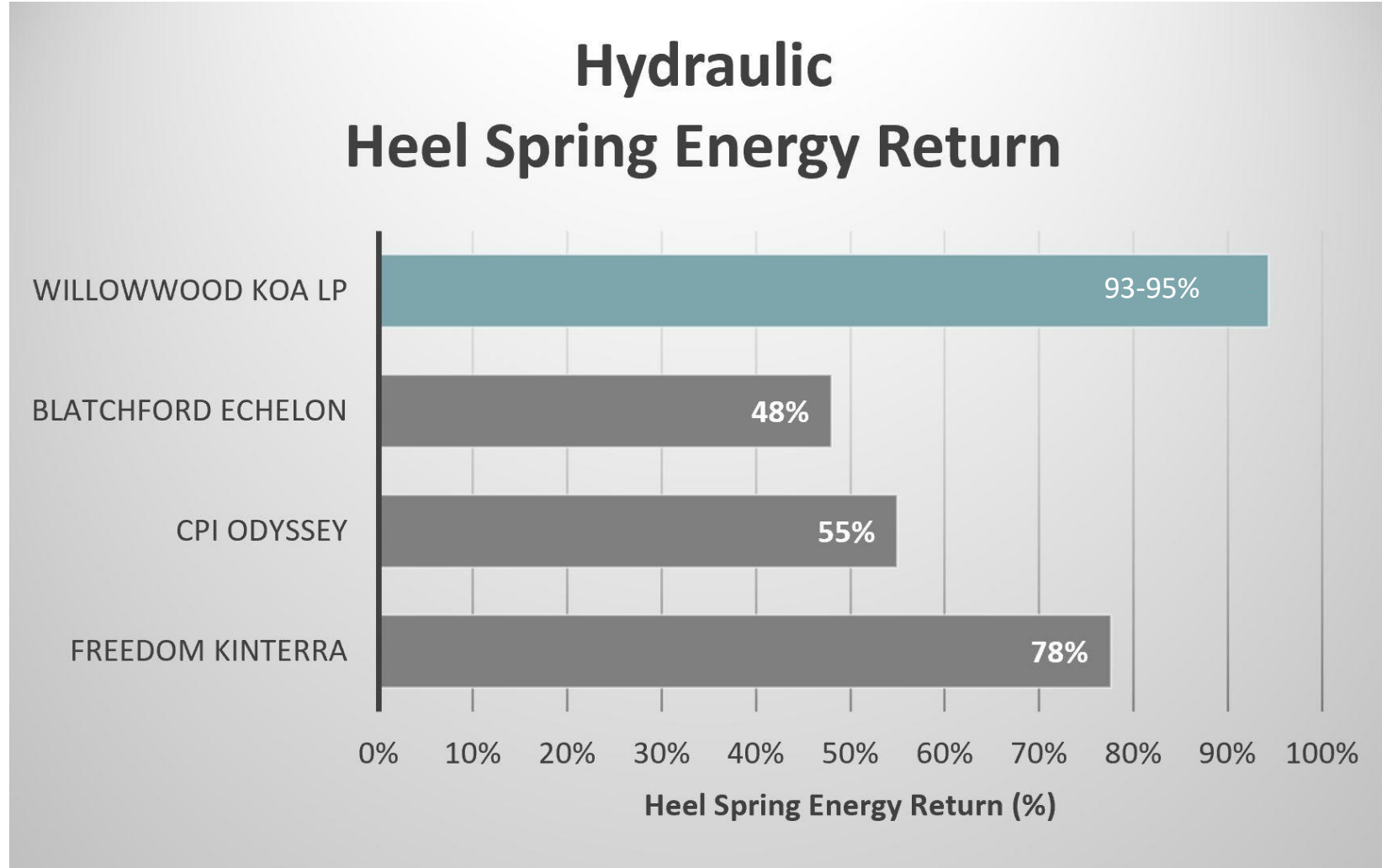
- Summary:
 - Similar energy return
 - Greater inversion/eversion range of motion than low profile carbon fiber feet
 - Durability

Positioning: Hydraulic Ankle Alternative

- ...vs Echelon, Odyssey, Kinterra, Motionfoot MX
 - Lightweight, Simple, Low Build Height



Positioning: Hydraulic Ankle Alternative



Positioning: Hydraulic Ankle Alternative

- Summary:
 - Koa LP utilizes the flexibility of fiberglass to provide range of motion and high energy return from heel strike

OUT WITH THE OLD,
IN WITH THE TRU

WillowWood[®]
ALPHA TrūSeal[™]





An all new sealing liner featuring

Trū Suction

Trū Durability

Trū Volume Control

Trū Suction

Four integrated stepped fins create consistent socket contact in 2 ways:

- 1** Stepped design reinforces fin and promotes upward deflection consistently
- 2** Stepped design creates two points of contact, per fin, against the socket wall

Excellent fin contact and visual identification of a proper seal during diagnostic fitting = less pistoning and improved rotational control.



Trū Durability

Satin finish and Alpha Silicone prolong liner life by:

- 1 Allowing easier, lubricant-free donning
- 2 Fabricless, Satin finish is easy to clean and promotes hygiene
- 3 Satin finish reduces shear and fin wear from daily liner reflection while don/doffing



Trū Volume Control

TruSeal liner accommodates a wide range of daily volume fluctuation. Adaptation to fluctuation ensures uninterrupted suction suspension.

This is accomplished by:

- 1 Platinum cured silicone with an embedded mesh fabric that adapts to volume changes
- 2 Stepped fin design that maintains consistent contact
- 3 Silicone VMPs provide user and clinician without compromising fin security



Features

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Features & Benefits

Feature	Benefit
Four Integrated Stepped Fins	Minimize pistoning and control rotation within the prosthesis
	Fins conform to the socket and clearly indicate a proper seal
Satin Outer Finish	Allows for easier donning and eliminates additional lubricants
	The fabricless design is easy to clean and promotes hygiene
Inner Topcoat	Reduces tack and resists abrasion
Symmetrical Profile	Easy to don, non-specific liner orientation
	Extends the life of the liner
Embedded Fabric Mesh	Stabilizes soft tissue
	Protects the liner from rips, tears and abrasion
Durable Silicone	Platinum-cured silicone resists tears and rips
	Soft tissue compression and control
Silicone VMP	User and clinician directed management of daily volume fluctuation



Symmetrical AK profile

Silicone



9 sizes



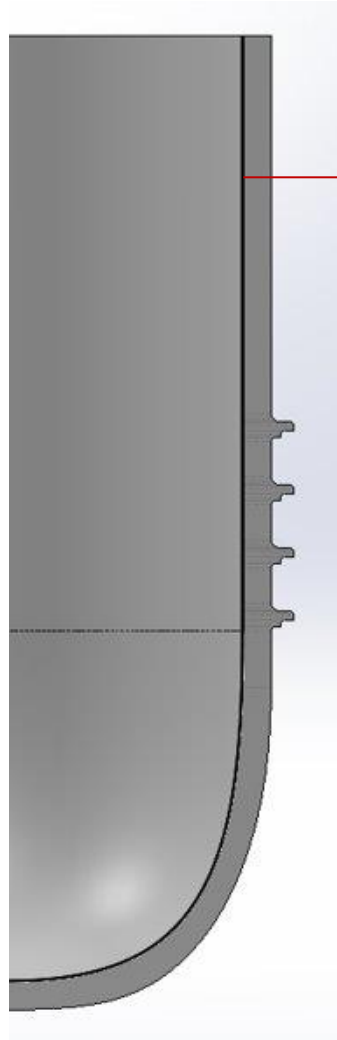
Exterior & Interior

Satin Outer Finish



- Easy donning
- Low friction
- Lubricant-free

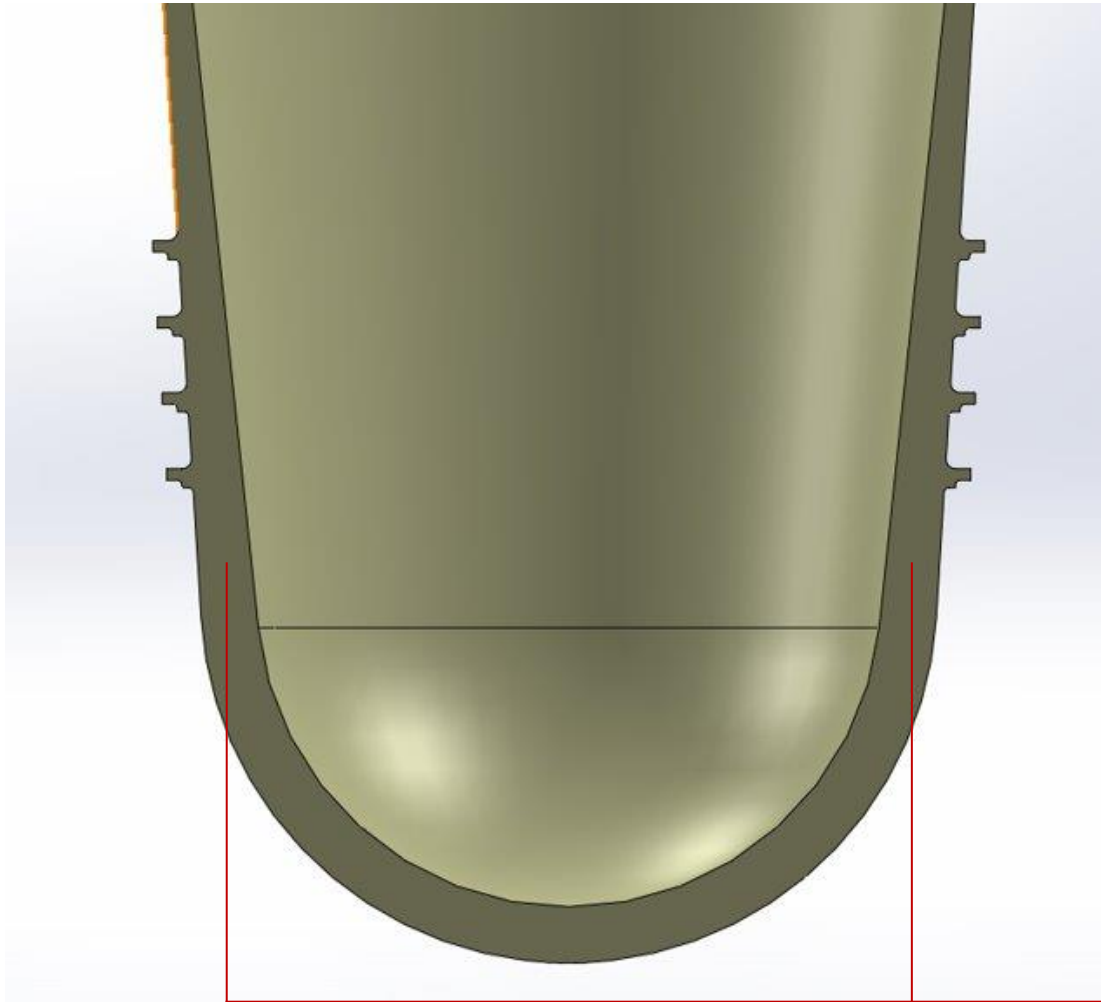
Embedded Fabric



Embedded fabric mesh within silicone

- No elongation
- No ring seal constriction
- Controlled circumferential expansion

Silicone Profile

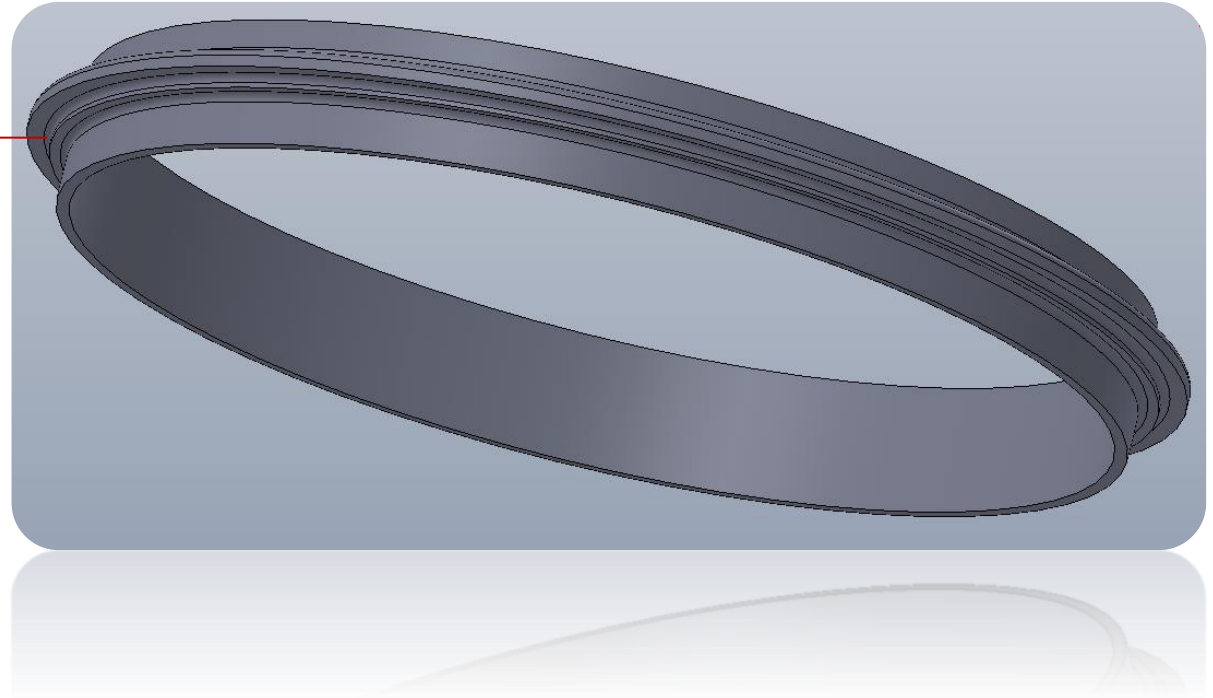
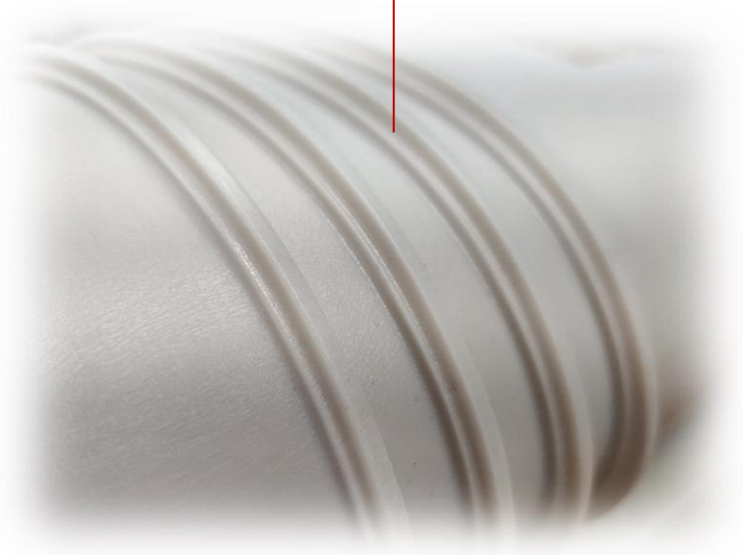


- Universal orientation
- Minimum bulk
- Maximum cushioning

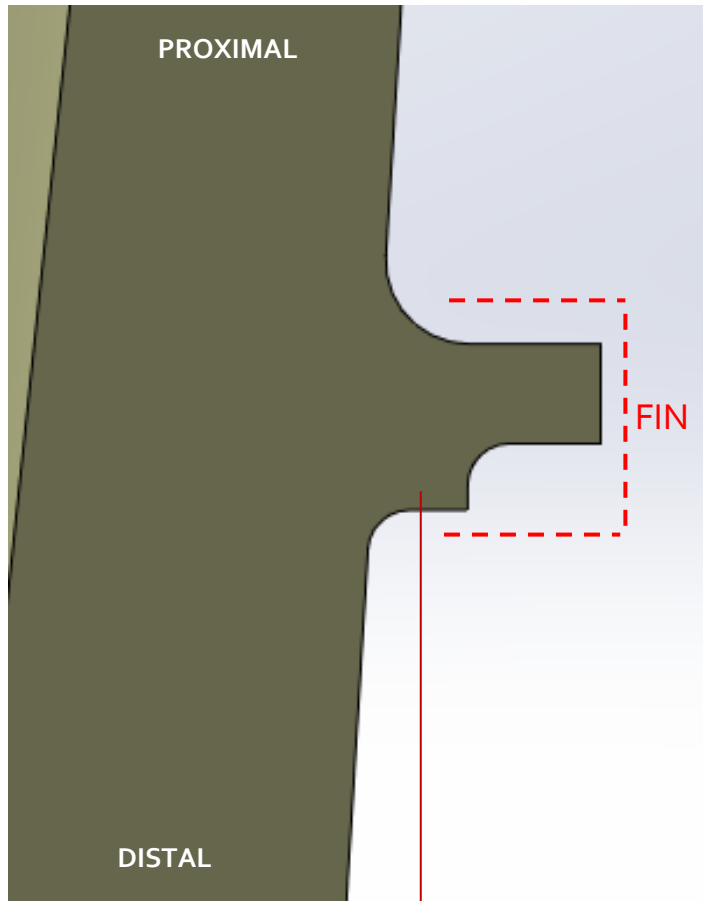
Tapered, symmetrical profile

Fin Profile

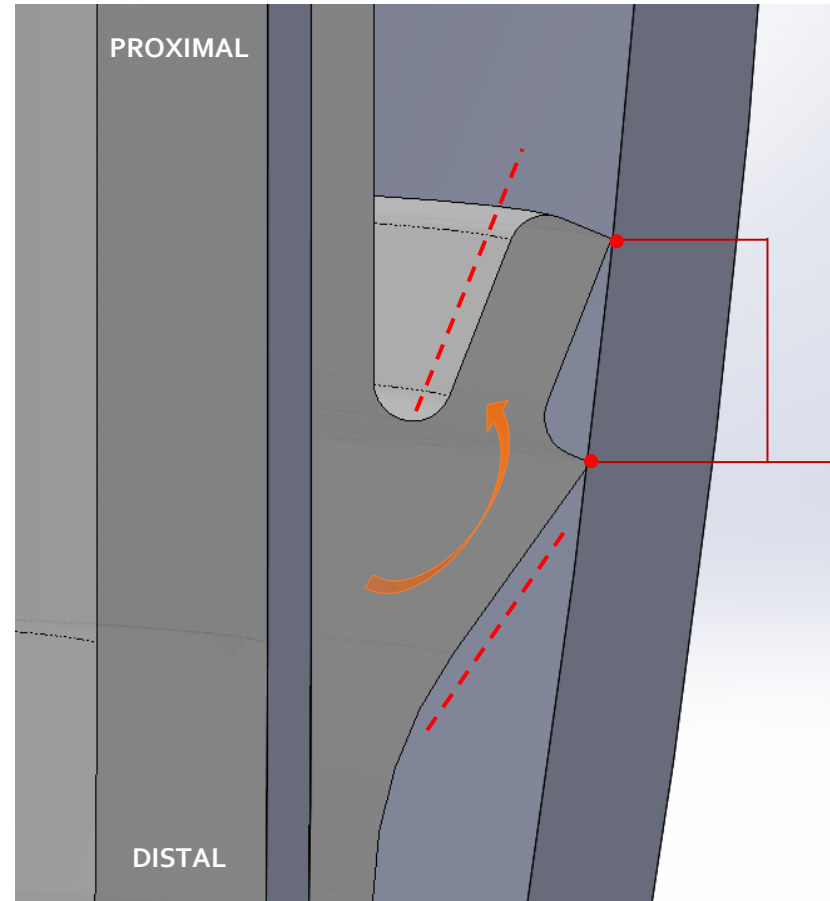
Stepped design



Fin Profile



Stepped design fin



Fin flips up proximally

2 points of seal contact

Specifications

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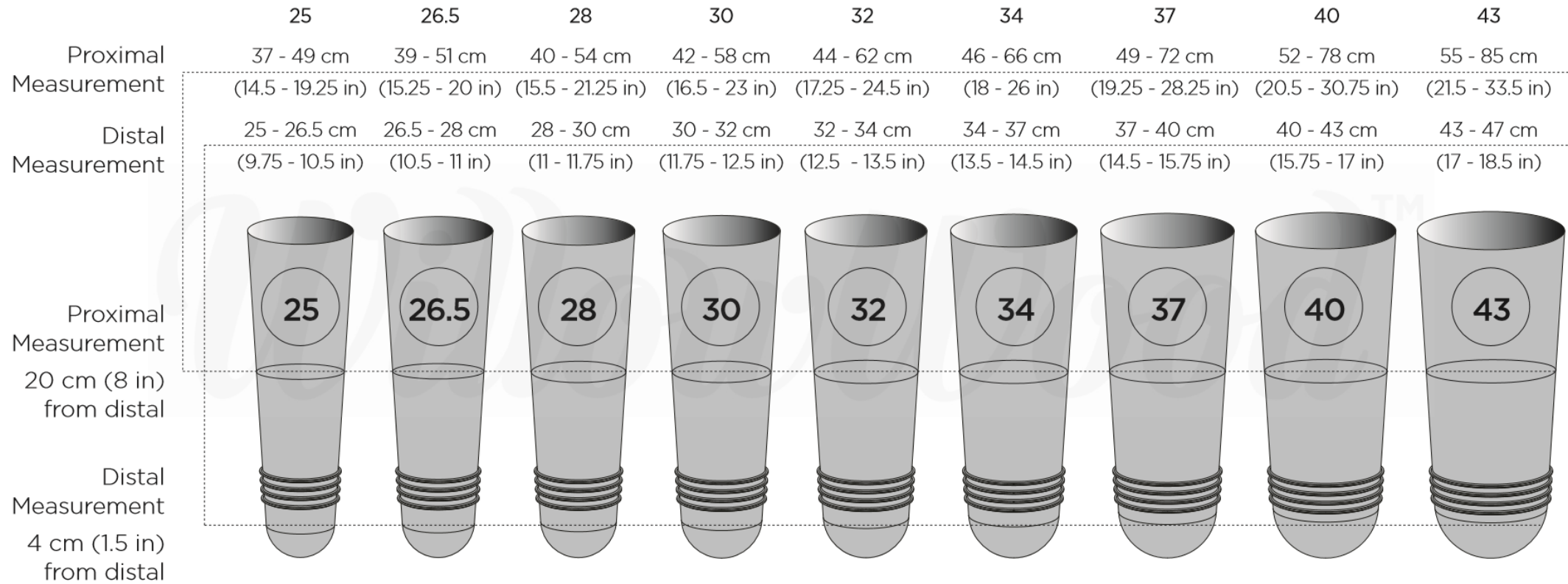


Alpha TruSeal Specifications

Category	Specification
User Activity Level:	All functional levels
User Types:	Transfemoral (TF) users
Interface Material:	Medical grade, platinum-cured silicone
Suspension Method:	Four integrated stepped fins
Liner Color:	Taupe
Sizes:	9 sizes, ranging from 25 cm to 43 cm
Liner Profile:	AK Symmetrical. The liner is 9 mm distal and tapers to 2.5 mm proximal
Warranty:	12 months from date of patient fitting
Trial Period:	30 days from date of patient fitting
Recommended L-Codes:	L5679
Casting Liners:	Not Available

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Sizing Chart



Ordering Guidelines

1. Collect user measurements at 4 cm (1.5”) & 20 cm (8”)
2. Refer to sizing chart

S494-1 1XX



25 = 25 cm
26 = 26.5 cm
28 = 28 cm
30 = 30 cm
32 = 32 cm
34 = 34 cm
37 = 37 cm
40 = 40 cm
43 = 43 cm

Alpha VMP Specifications

Category	Specification
Size:	9" x 4.5" (23 cm x 11.5 cm)
Thickness:	4.5 mm & 7.5 mm
Beveled Edge (Width):	3/4" (2 cm)
Material:	Medical grade, platinum-cured silicone
Warranty:	30 days from date of patient fitting
Trial Period:	No trial period
Recommended L-Code(s):	Not applicable



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WARRANTY

Important Note: For the safety of you and your patients, WillowWood will not resell any returned Alpha Liners that may possibly have been worn.

Material Safety Data Sheet

A Material Safety Data Sheet (MSDS) for the Alpha TruSeal Liner is available from WillowWood upon request.

Warranty

WillowWood warrants each Alpha Liner from the date of fitting for a period of 12 months against defects in material and workmanship. There is no warranty, expressed or implied, for damage caused by abuse, mishandling or accident. The warranty is void if the fitting and routine care instructions are not followed. For your protection and ours, please thoroughly clean all used products prior to return.

Warranty Disclaimer

WillowWood warrants that each product manufactured will, at the time of delivery, be of workmanlike quality and substantially free of defects. WillowWood makes no other warranty, implied or expressed, and makes no warranty of merchantability or fitness for a particular purpose. This warranty shall terminate immediately upon an action to combine our products with other materials or in any manner change the nature of our products. The remedy is repair or replacement or credit for the failed products at the discretion of WillowWood. If a replacement product is provided to a customer, the warranty period will be the number of days remaining on the original warranty. WillowWood's liability shall not exceed the purchase price of the product. WillowWood is not responsible for any indirect, incidental or consequential damage.

Retention of Rights

WillowWood retains all intellectual property rights reflected in its physical products, regardless of the transfer of the physical products to another party or parties.

Trial Period

The trial period for an Alpha Liner is 30 days from the date of the seller's invoice. The policy for Alpha Liners returned during the trial period is as follows:

- Credit will be offered for patient rejection, defined as "product not appropriate for patient"
- For all other circumstances, exchange for a different Alpha Liner will be offered


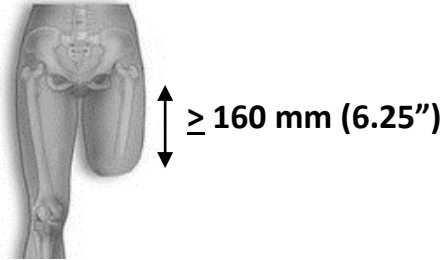
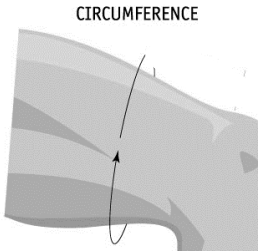
- 12 month Warranty
- 30 day Trial Period

Indications

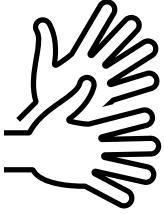

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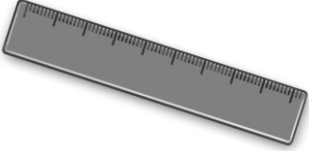
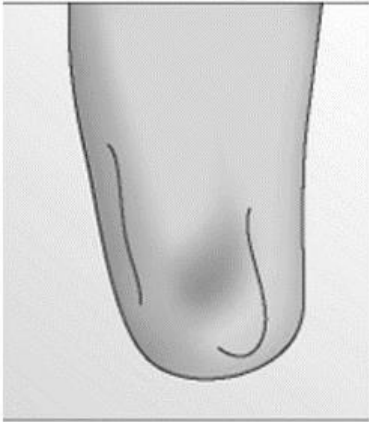
User Criteria

	Above knee amputee only
	Minimum 160 mm (6.25") limb length
	<p>Min. 250 mm Max. 850 mm Size intervals (25, 26.5, 28, 30, 32, 34, 37, 40, 43 cm)</p>

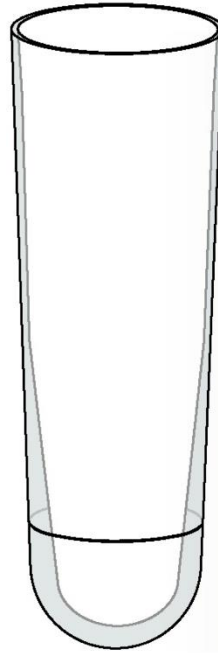
User Criteria

	Manual dexterity, capable of roll-on donning
	Skin tolerance, non-porous liner

User Criteria

	Stable limb volume and measurements
	No scarring or deep invaginations
	Normalized shape, even sealing contact

Contraindications



- Not recommended for retrofitting with other liner models or profiles

Donning

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Invert the liner.

Sealing rings face inside.

Position liner on end of limb.

Slowly roll liner up.

Avoid stretching or pulling
the material onto the limb.



Correctly donned TruSeal liner





Fitting

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CORRECT FIT

Assess ring seal under weight bearing

Reposition socket to disrupt seal

Verify distal contact

Avoid tissue elongation

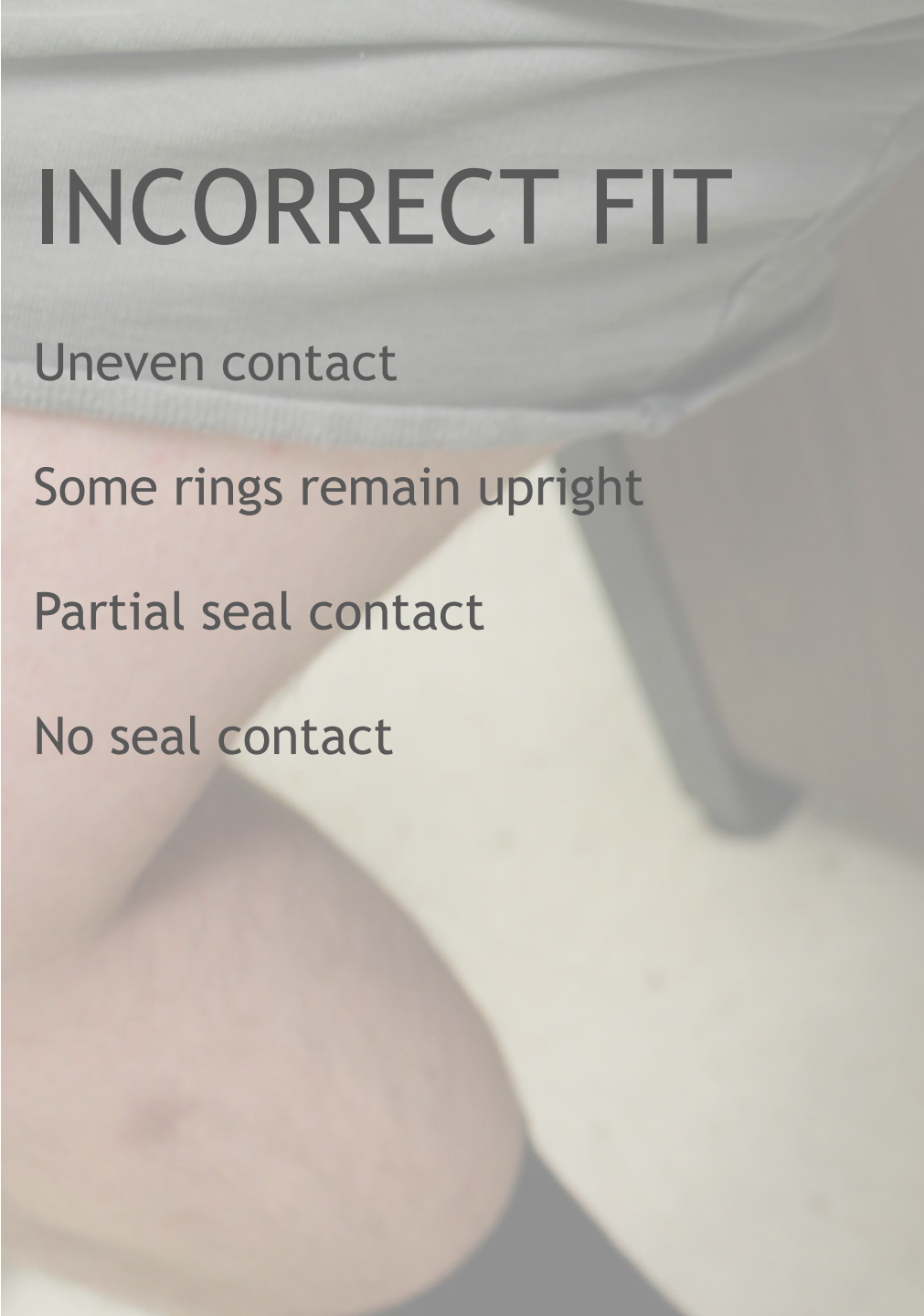


CORRECT FIT

Total contact achieved:

- Liner blanching
- Proximal tissue containment
- All four rings contact





INCORRECT FIT

- Uneven contact
- Some rings remain upright
- Partial seal contact
- No seal contact



INCORRECT FIT

Proximal tissue uncontained

Tissue impingement

Tissue elongation

Partial or no distal contact

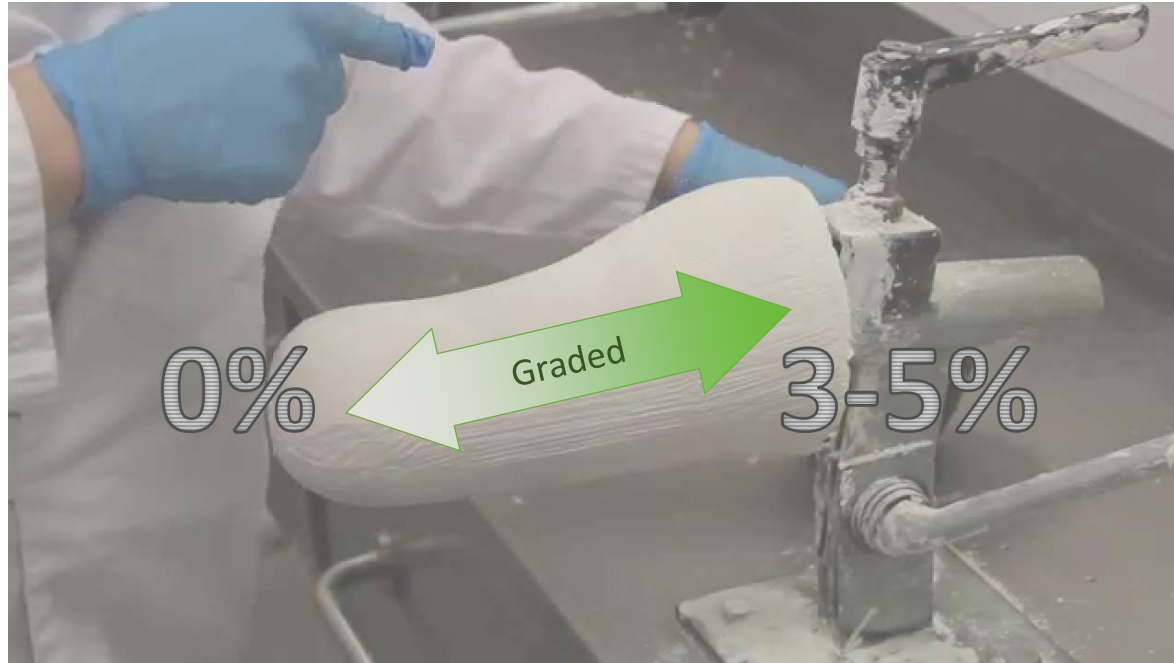


Modification

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Graded Volume Reduction



Liner Care

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Daily Cleaning



- Mild body soap
- Soft cloth
- Wipe inside surface without rings



- Rinse with water
- Remove excess soap



- Dry liner
- Lint-free cloth

Weekly Disinfection



- Iso/ethylpropyl alcohol
- Soft cloth
- Wipe inside surface without rings



- Rinse with water
- Remove excess alcohol



- Dry liner
- Lint-free cloth

Liner Care



- Place liner on drying stand
- Rings facing out

Trū Suction

Four integrated stepped fins create consistent socket contact in 2 ways:

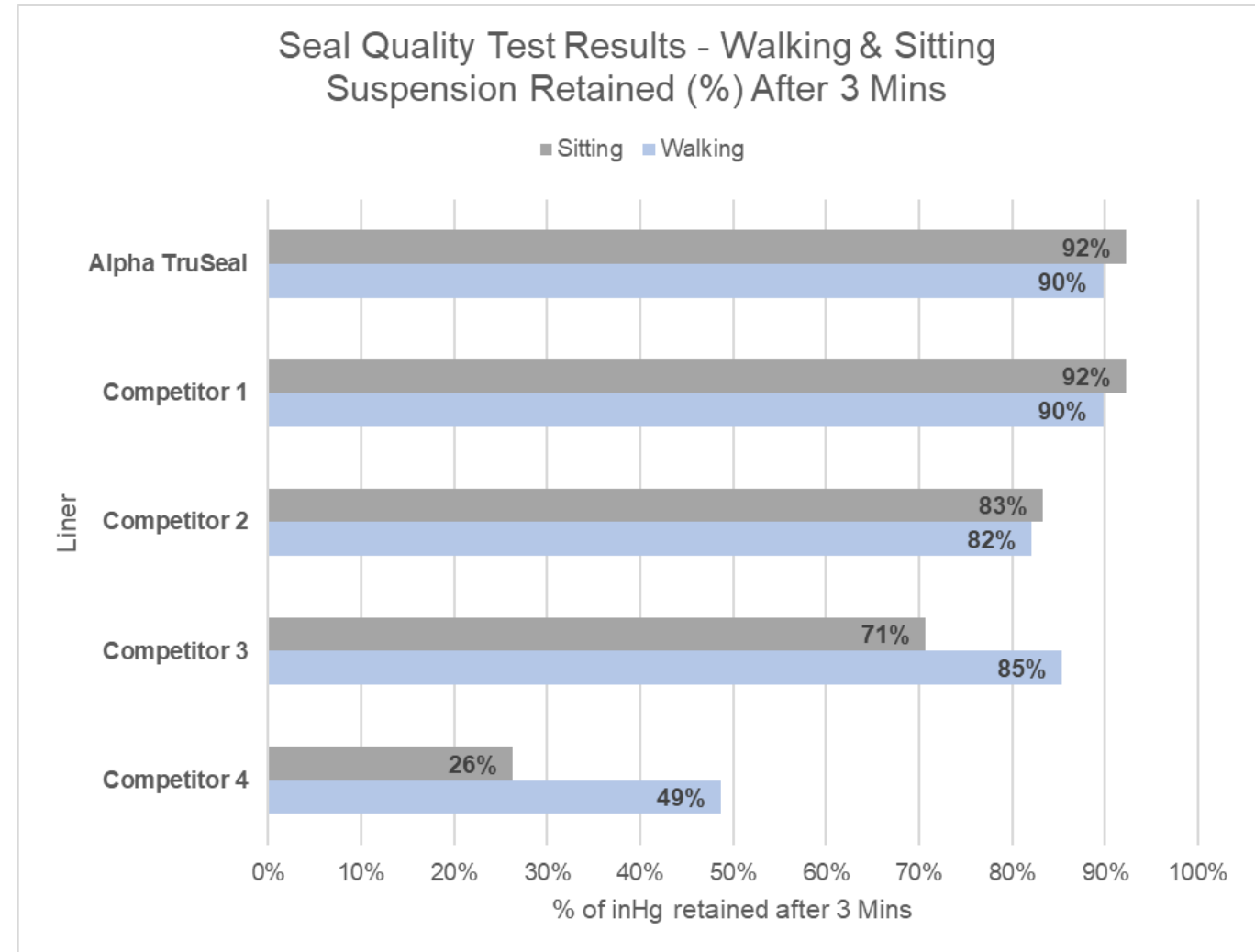
- 1** Stepped design reinforces fin and promotes upward deflection consistently
- 2** Stepped design creates two points of contact, per fin, against the socket wall

Excellent fin contact and visual identification of a proper seal during diagnostic fitting = less pistoning and improved rotational control.

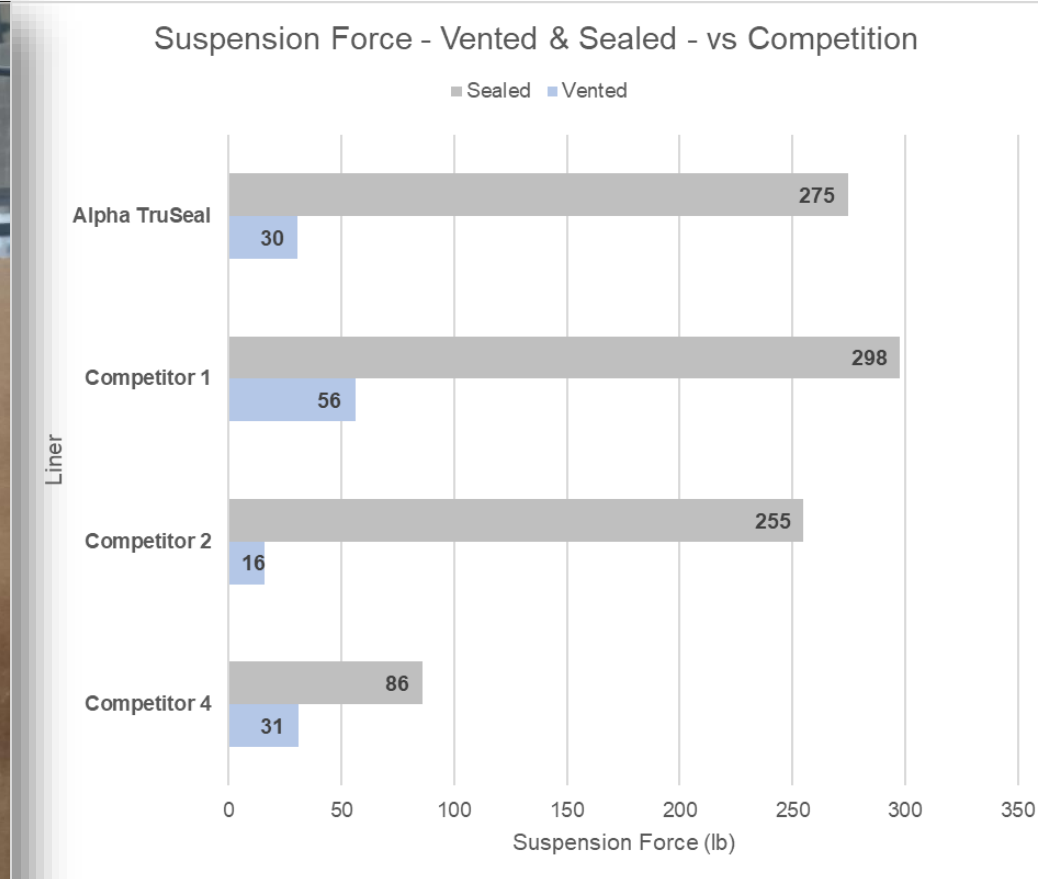


Tru Suction (Seal Quality Testing)

- Started with new liners and definitive sockets for each test
- Used LimbLogic, set to 20 inHg, to generate high levels of vacuum suspension to accelerate the differences that would occur at lower suction ranges
- Subjects completed continuous walking/sitting periods for 3 minutes
- Measured the remaining pressure
- **Alpha TruSeal is among the best performers - least amount of suction leak**



Tru Suction (Socket Pull Testing)



- Alpha TruSeal & Competitors were fit over a limb model and inserted into a check socket
- Placed on a tension-compression test machine
- Measured force required to pull limb model from socket
- Performed in vented and sealed configurations
- Alpha TruSeal provided one of the highest suspension forces when sealed
- Alpha TruSeal exhibited one of the lowest doffing forces when vented

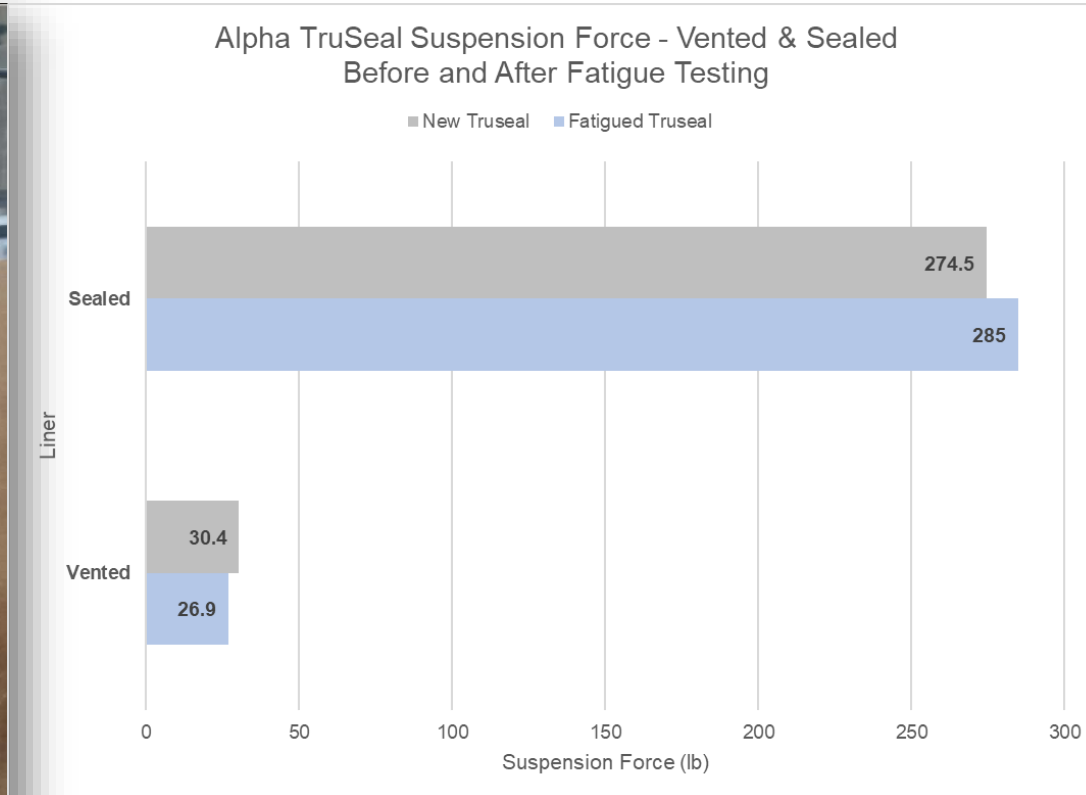
Trū Durability

Satin finish and Alpha Silicone prolong liner life by:

- 1 Allowing easier, lubricant-free donning
- 2 Fabricless, Satin finish is easy to clean and promotes hygiene
- 3 Satin finish reduces shear and fin wear from daily liner reflection while don/doffing



Tru Durability (Socket Pull Post Fatigue)



- Following the initial pull test, the Alpha TruSeal liner was stressed in a cyclic mechanical loading test for 3 million cycles
- After the 3 million cycles concluded, the initial pull test was repeated
- Results found **no loss of suspension force**, demonstrating the durability of the liner

Trū Volume Control

TruSeal liner accommodates a wide range of daily volume fluctuation. Adaptation to fluctuation ensures uninterrupted suction suspension.

This is accomplished by:

- 1 Platinum cured silicone with an embedded mesh fabric that adapts to volume changes
- 2 Stepped fin design that maintains consistent contact
- 3 Silicone VMPs provide user and clinician without compromising fin security



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ALPHA TrūSeal[™]

